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(71)Applicant : TSUKIJI TAKEHIKO
TAKAHARA NOBORU
MAJIMA MOTOHARU

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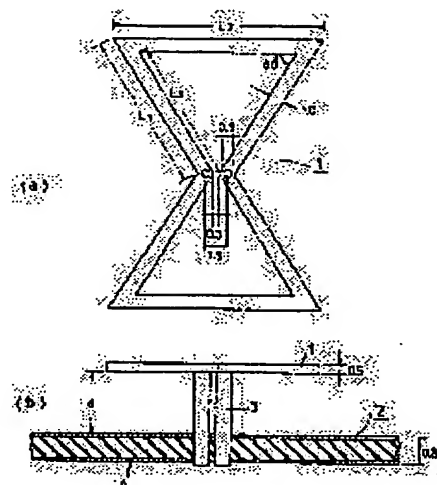
(72)Inventor : TSUKIJI TAKEHIKO
TAKAHARA NOBORU
MAJIMA MOTOHARU

(54) ANTENNA SYSTEM

(57)Abstract:

PURPOSE: To strengthen the antenna system itself by supporting a triangle dual loop antenna onto a reflecting plate while a balanced feeder as a supporting rod and strengthening the triangle dual loop antenna itself in terms of the structure thereby eliminating the change in the antenna characteristic due to dielectric.

CONSTITUTION: The triangle dual loop antenna 1 symmetrically in upper/lower/ right/left directions is provided onto a reflecting plate 2 while the balanced feeder 3 is used as the supporting rod. The antenna 1 is made of a copper plate, e.g., 0.5mm thick and 1mm wide and the loop outermost peripheral length is set to, e.g., 1.15 time the center wavelength. Power is fed via a strip line 4 forming a balanced/unbalanced conversion circuit formed at the rear side of the reflecting plate 2. The connecting point of the balanced feeder 3 is used as the balanced feeding point of the antenna 1. Thus, the change in the antenna characteristic due to a dielectric is eliminated and the antenna system itself is formed strongly.



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